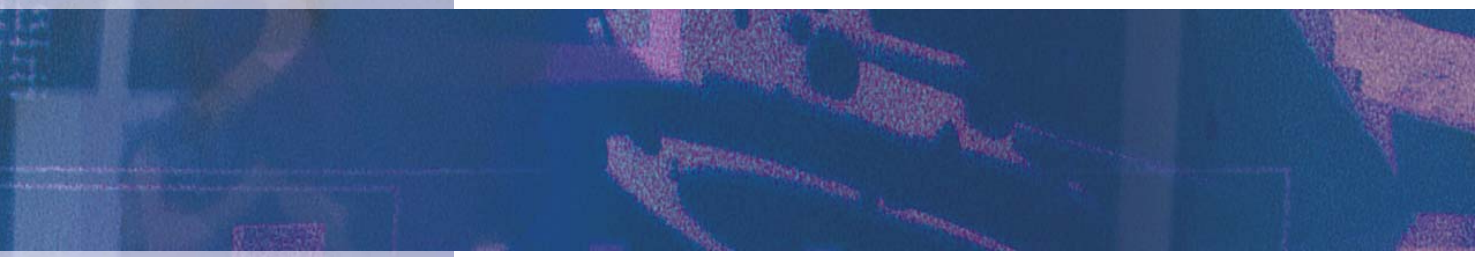
SOPHOS



sophos **anti-virus**

Unix server

Installation guide

For networks with

Servers
Unix

Workstations
Windows NT/2000/XP
Windows 95/98/Me

About this guide

This guide tells you how to

- install Sophos Anti-Virus on a Unix server
- scan the server for viruses
- eliminate viruses
- install Sophos Anti-Virus on Windows NT/2000/XP workstations
- install Sophos Anti-Virus on Windows 95/98/Me workstations.

The instructions for installation on Windows XP workstations apply only to Windows XP Professional (***not*** Windows XP Home) networked computers.

You can find details of all other configuration options in the *Sophos Anti-Virus Unix user manual*.

To find out how to update Sophos Anti-Virus on Unix, see the *Sophos Anti-Virus Unix server update guide.*

To find out how to install Sophos Anti-Virus on Mac OS 8 or 9 workstations connected to the Unix server, see the *Sophos Anti-Virus Mac OS 8 or 9 on a network installation guide*.

To find out how to install Sophos Anti-Virus on Mac OS X workstations connected to the Unix server, see the *Sophos Anti-Virus Mac OS X on a network installation guide*.

Sophos documentation is published on the Sophos CD each month and at www.sophos.com/support/docs/

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FAQs and virus information are available on the Sophos website www.sophos.com

If you contact technical support, provide as much information as possible, including Sophos software version number(s), operating system(s) and patch level(s), and the exact text of any error messages.

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Installation on the Unix server

1 Installing Sophos Anti-Virus on the server

You must uninstall any other anti-virus software before installing Sophos Anti-Virus.

If you have multiple, networked Unix computers, and you want to install and update Sophos Anti-Virus from a central directory, rather than carrying out installation at each computer separately, go to appendix 1.

Before you begin, make a note of the name of the Unix server in appendix 4 of this installation guide. To check the name, go to the server and enter

```
hostname
```

InterCheck Server is a daemon that runs on the Unix server, and processes virus alerts sent from Windows, Macintosh and OS/2 workstations. It is not vital to the running and updating of Sophos Anti-Virus. To use it you need to set up a user and group for the daemon and set permissions on a common directory. Refer to appendix 2.

There are four steps in the Sophos Anti-Virus for Unix installation process:

- Extract the installation files (section 1.1).
- Install Sophos Anti-Virus (section 1.2).
- Check the system settings (section 1.3).
- Add the latest virus identity files (section 1.4).

1.1 Extract the installation files

To extract the installation files, do as follows:

1. Ensure you are logged on to the server with root privileges or are superuser.

   If you have downloaded a Sophos Anti-Virus archive file from the Sophos website, go straight to step 5.

2. Insert the Sophos CD. Mount the CD and list the contents of the `unix` directory.

3. Select the archive file that corresponds to your Unix platform.

4. Copy the archive file to the `/tmp` directory.

5. Untar the archive file into `/tmp` as follows:

   ```
   cd /tmp
   tar -xvf [dist].tar
   ```

   where `[dist].tar` is the archive for your platform.

   A directory called `sav-install` is created in the `/tmp` directory and the installation files are extracted to it.

   The `sav-install` directory also contains readmes and man pages, including the following:

`Readunix.txt`	Readme file, including late news.
`Install.txt`	Installation instructions, with details of all options.
`sweep.1`	man page for SWEEP (the virus scanning program).

   Now you are ready to install Sophos Anti-Virus (section 1.2).

1.2 Install Sophos Anti-Virus

To install Sophos Anti-Virus ***without*** InterCheck Server (recommended), run the installation script with the `-ni` option:

```
cd sav-install
./install.sh -ni
```

To install Sophos Anti-Virus ***with*** InterCheck Server, run the installation script without the `-ni` option (you must have already followed the instructions in appendix 2.1):

```
cd sav-install
./install.sh
```

For information on all the options with which you can run the installation script, see appendix 3.

You may now see a warning about the MANPATH environment variable. However, the installation will be made correctly.

The installation script places

- binaries in `/usr/local/bin`
- shared library in `/usr/local/lib`
- virus data in `/usr/local/sav`
- manual pages in `/usr/local/man`

If your installation included InterCheck Server, the script also sets up

- a directory to which non-Unix workstations can send virus reports at `/var/spool/intercheck`

Now check your system settings (section 1.3).

1.3 Check the system settings

In this section you ensure that the environment variables in your login script or profile include the directories that Sophos Anti-Virus uses.

- PATH should include /usr/local/bin
- MANPATH should include /usr/local/man
- LD_LIBRARY_PATH should include /usr/local/lib.

In AIX, the library environment variable is LIBPATH, and in HPUX it is SHLIB_PATH.

On some systems, such as FreeBSD and Linux, you can enable Sophos Anti-Virus to use the Sophos Anti-Virus shared libraries by running ldconfig. This may require editing of /etc/ld.so.conf.

If any of these variables are not included, add them to the environment variable(s) as shown in the examples below. Do not alter any of the existing settings.

If you are running the sh, ksh or bsh shell, enter

```
PATH=$PATH:/usr/local/bin
export PATH
```

If you are running the csh or tsh shell, enter

```
setenv PATH [values]:/usr/local/bin
```

where [values] are the existing settings.

You should make these variables system-wide. To do this, amend /etc/login or /etc/profile.

If you ***do not*** have a login script, you will need to reset these values every time you restart the server.

Now add the latest virus identity files to the server (section 1.4).

1.4 Download the latest virus identity files (IDEs)

This section describes how to download IDEs from the Sophos website.

A **virus identity file (IDE)** enables Sophos Anti-Virus to detect a specific virus. You need IDEs to protect your server against viruses discovered since your version of Sophos Anti-Virus was compiled.

Download the latest IDEs as follows:

1. Go to the IDE download page of the Sophos website (www.sophos.com/downloads/ide).
2. Download the compressed IDEs file for your version of Sophos Anti-Virus.
3. Extract the IDEs to `usr/local/sav`.

If you prefer, scroll down the page and download the IDEs one by one, to the location above.

Help with downloading IDEs is available on the IDE FAQ page of the Sophos website (www.sophos.com/support/faqs/ide.html).

If you need further help with downloading IDEs, please contact Sophos technical support.

Sophos Anti-Virus is now installed and up to date on the Unix server.

If you installed InterCheck Server, you now activate it (appendix 2.2).

- Section 2 describes how to scan the server for viruses.
- Section 3 describes how to eliminate a virus.
- Sections 4 to 9 describe how to install Sophos Anti-Virus on Windows workstations connected to the Unix server.

Remember to update Sophos Anti-Virus every month. In addition, you must update Sophos Anti-Virus whenever there is a significant new virus threat. Updating is described in the *Sophos Anti-Virus Unix server update guide*.

2 Scanning the server for viruses

2.1 Scanning the local computer

To scan the local computer, enter

```
sweep /
```

2.2 Scanning a particular directory or file

To scan a particular item, use the path to that item, for example

```
sweep /usr/mydirectory/myfile
```

2.3 Scanning a filesystem

To scan a filesystem, use the name of the filesystem, for example

```
sweep /home
```

2.4 Finding a virus

After the scan, you will see a message similar to that shown below.
If Sophos Anti-Virus has found a virus, it reports it in the line which starts with >>> and is followed by either `Virus` or `Virus fragment`. For information on disinfection, see section 3.

```
SWEEP virus detection utility
Version 3.56, April 2002 [Linux/Intel]
Includes detection for 73079 viruses, trojans and worms
Copyright (c) 1989,2002 Sophos Plc, www.sophos.com

System time 10:23:49, System date 07 May 2002

Quick Sweeping

>>> Virus 'EICAR-AV-Test' found in file /home/source/eicar.src

33 files swept in 2 seconds.
1 virus was discovered.
1 file out of 33 was infected.
Please send infected samples to Sophos for analysis.
For advice consult www.sophos.com, email support@sophos.com
or telephone +44 1235 559933
```

2.5 For further help

For help with using Sophos Anti-Virus, enter

```
sweep -h
```

3 Eliminating viruses

This section describes how to disinfect infected items on a Unix server. For information on disinfecting non-Unix workstations, see the Sophos Anti-Virus documentation for that platform.

The method you use for disinfection depends on whether you want to disinfect a data file or a program.

3.1 To disinfect a data file

To disinfect a specific data file (e.g. a document or spreadsheet), enter

```
sweep [data file path] -di
```

Alternatively, to detect and remove viruses in any data file or program on the system, enter

```
sweep / -di
```

In either case, Sophos Anti-Virus asks for confirmation before it disinfects.

Check disinfected files carefully afterwards. Sophos Anti-Virus can remove the virus, but cannot reverse any side-effects. Check the analysis of the virus on the Sophos website for information about its possible side-effects.

3.2 To disinfect a Windows program

You can eliminate viruses in program files in two ways.

To disinfect a program file, enter

```
sweep [program filename] -di
```

This ensures that the virus cannot spread. However, the program file may be corrupted. You should subsequently delete it and replace it from a backup.

To remove an infected program file, enter

```
sweep [program filename] -remove
```

Alternatively, to remove all infected programs, enter

```
sweep / -remove
```

In either case, Sophos Anti-Virus asks for confirmation before it removes the program(s).

Creation of central installation directories

4 Creating the Windows NT/2000/XP central installation directory

If you want to install Sophos Anti-Virus on only Windows 95/98/Me workstations on the network, go straight to section 5.

4.1 Create a shared directory on the server

Create a shared directory called `InterChk` on the Unix server that is accessible to all the Windows workstations on the network.

- All workstations need at least read access to the `InterChk` directory.
- The Administrator user should have full access to the `InterChk` directory.

4.2 Create the central installation directory for Windows NT/2000/XP

The **central installation directory** (CID) is the central copy of Sophos Anti-Virus files from which Sophos Anti-Virus is installed on the workstations. Whenever you update the CID, Sophos Anti-Virus is updated on the workstations automatically.

Create the CID as follows:

1. At any Administrator's workstation running Windows NT/2000 (not XP) and having internet access, log on with Administrator rights to the server. Write down the name of the workstation in appendix 4.

   If you have already downloaded and unzipped the Sophos Anti-Virus for Windows NT/2000/XP files from the Sophos website, go to step 4.

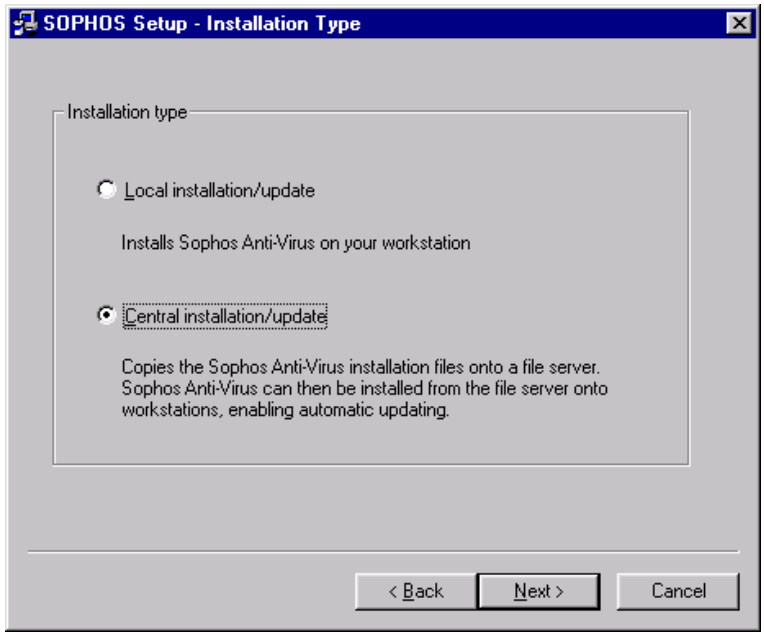
2. Insert the Sophos CD in the CD drive. The CD should auto-run. If auto-run is disabled, run `D:\Launchcd` (where `D:` is the CD drive).

3. In the **Sophos CD** window, click **Sophos Anti-Virus**. At the next screen, click **Windows NT/2000/XP**, and start the setup program.

4. In the **SOPHOS Setup** dialog box, click **Next** to continue the installation.

SOPHOS Setup
sophos anti-virus
SETUP
Sophos Anti-Virus
Sophos Setup will install Sophos Anti-Virus on your system.
To continue with the installation click on Next, otherwise click on Cancel.
< Back
Next >
Cancel

5. In the **SOPHOS Setup - Installation Type** dialog box, click **Central installation/update**. Click **Next**.


SOPHOS Setup - Installation Type
Installation type
Local installation/update
Installs Sophos Anti-Virus on your workstation
Central installation/update
Copies the Sophos Anti-Virus installation files onto a file server. Sophos Anti-Virus can then be installed from the file server onto workstations, enabling automatic updating.
< Back
Next >
Cancel

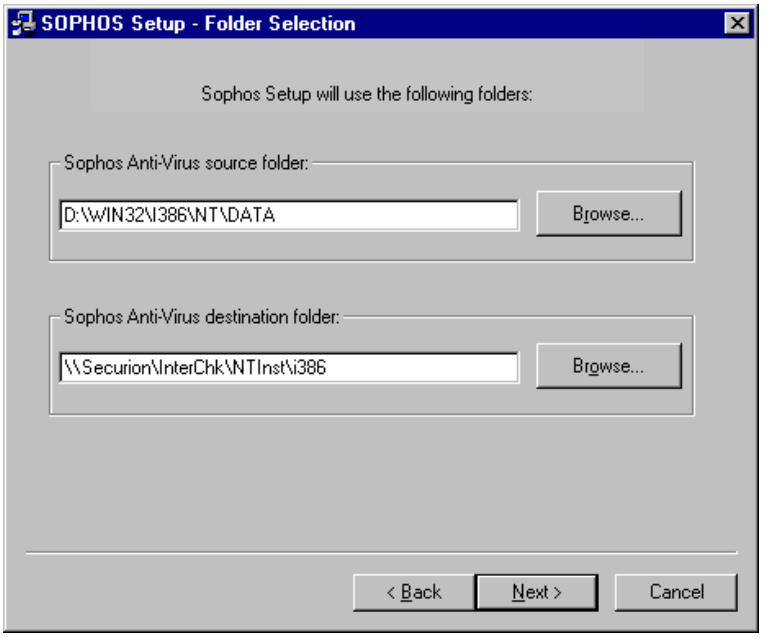
6. In the **SOPHOS Setup - Folder Selection** dialog box, you tell Sophos Anti-Virus to use the `InterChk` directory you created on the Unix server. Click the lower **Browse** button.

   In the **Browse for Folder** dialog box, browse to the shared `InterChk` directory on the Unix server (called `Securion` in the example below). Highlight the directory and click **OK**.

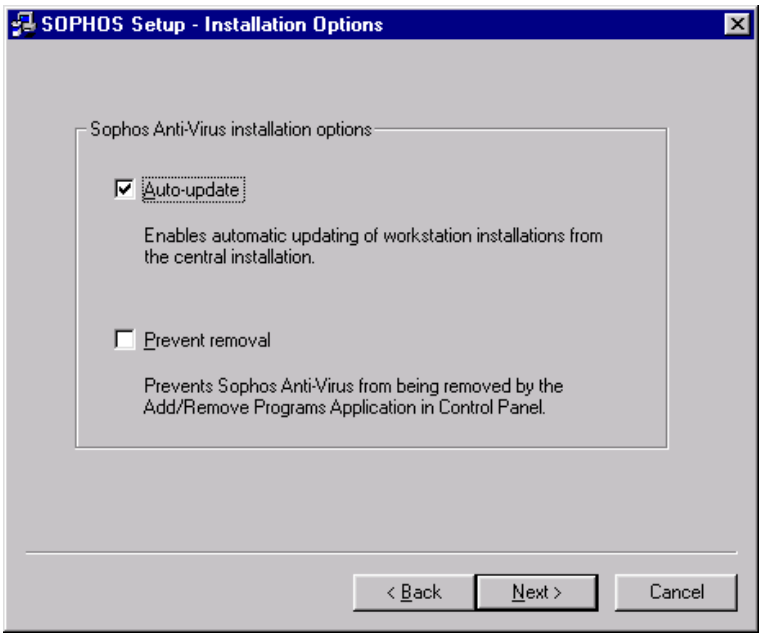
   At the end of the path to the `InterChk` directory, type

   `\NTInst\i386`

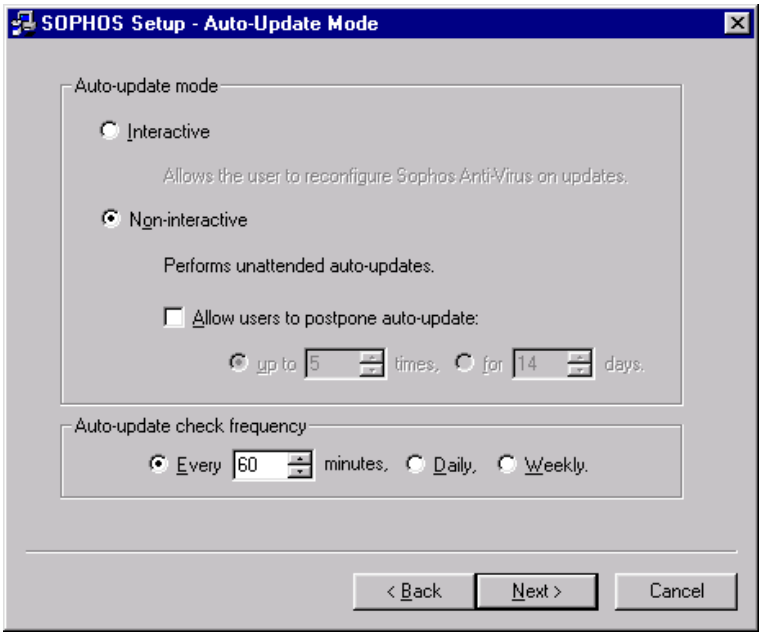
   Click **Next**.



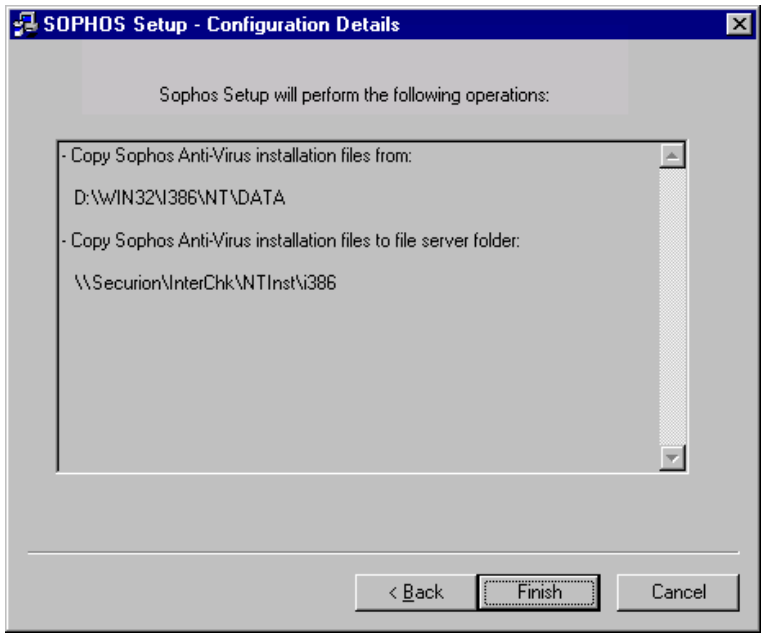
7. In the **SOPHOS Setup - Installation Options** dialog box, ensure **Auto-update** is selected. Click **Next**.


SOPHOS Setup - Installation Options
Sophos Anti-Virus installation options
Auto-update
Enables automatic updating of workstation installations from the central installation.
Prevent removal
Prevents Sophos Anti-Virus from being removed by the Add/Remove Programs Application in Control Panel.
< Back
Next >
Cancel

8. In the **SOPHOS Setup - Auto-Update Mode** dialog box, click **Non-interactive**. Deselect **Allow users to postpone auto-update**, and ensure the **Auto-update check frequency** is set to 60 minutes. Click **Next**.



9. In the **SOPHOS Setup - Configuration Details** dialog box, click **Finish** to copy the files to the CID.



10. In the **SOPHOS Setup Complete** message box, click **OK**.

SOPHOS Setup Complete
sophos anti-virus
Sophos Anti-Virus central installation complete.
SETUP location:
"\\Securion\InterChk\NTInst\i386"
You can now run Sophos Setup from the above location to install Sophos Anti-Virus on your workstations.
OK

You have created the Windows NT/2000/XP CID.

If you want to install Sophos Anti-Virus on Windows 95/98/Me workstations on the network, create the Windows 95/98/Me CID (section 5).

Otherwise, download the latest virus identity files (IDEs) from the Sophos website (section 6).

5 Creating the Windows 95/98/Me central installation directory

5.1 Create a shared directory on the server

If you have not already done so, create a shared directory called `InterChk` on the Unix server that is accessible to all the Windows workstations on the network.

- All workstations need at least read access to the `InterChk` directory.
- The Administrator user should have full access to the `InterChk` directory.

5.2 Create the central installation directory for Windows 95/98/Me

The **central installation directory** (CID) is the central copy of Sophos Anti-Virus files from which Sophos Anti-Virus is installed on the workstations. Whenever you update the CID, Sophos Anti-Virus is updated on the workstations automatically.

Create the CID as follows:

1. At any Administrator's workstation running Windows NT/2000 (not XP) or Windows 95/98/Me and having internet access, if you have not already done so, log on with Administrator rights to the server. Write down the name of the workstation in appendix 4.

   If you have already downloaded and unzipped the Sophos Anti-Virus for Windows 95/98/Me files from the Sophos website, go to step 4.

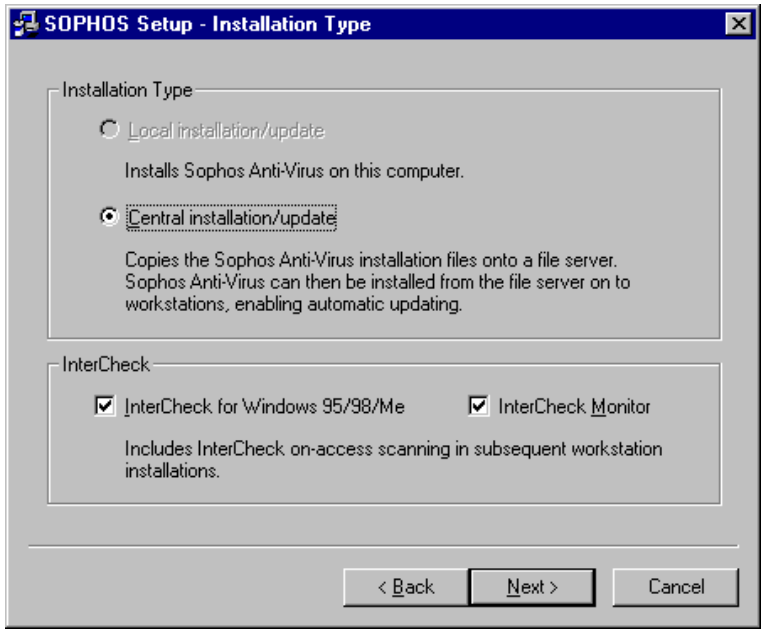
2. If you have not already done so, insert the Sophos CD in the CD drive. The CD should auto-run. If auto-run is disabled, run `D:\Launchcd` (where `D:` is the CD drive).

3. In the **Sophos CD** window, click **Sophos Anti-Virus**. At the next screen, click **Windows 95/98/Me**, and start the setup program.

4. In the **SOPHOS Setup** dialog box, click **Next** to continue the installation.

SOPHOS Setup
sophos anti-virus
SETUP
Sophos Anti-Virus
Sophos Setup will install Sophos Anti-Virus on your system.
To continue with the installation click on Next, otherwise click on Cancel.
< Back
Next >
Cancel

5. In the **SOPHOS Setup - Installation Type** dialog box, click **Central installation/update**. Ensure that **InterCheck for Windows 95/98/Me** and **InterCheck Monitor** are selected. Click **Next**.


SOPHOS Setup - Installation Type
Installation Type
Local installation/update
Installs Sophos Anti-Virus on this computer.
Central installation/update
Copies the Sophos Anti-Virus installation files onto a file server. Sophos Anti-Virus can then be installed from the file server on to workstations, enabling automatic updating.
InterCheck
InterCheck for Windows 95/98/Me
InterCheck Monitor
Includes InterCheck on-access scanning in subsequent workstation installations.
< Back
Next >
Cancel

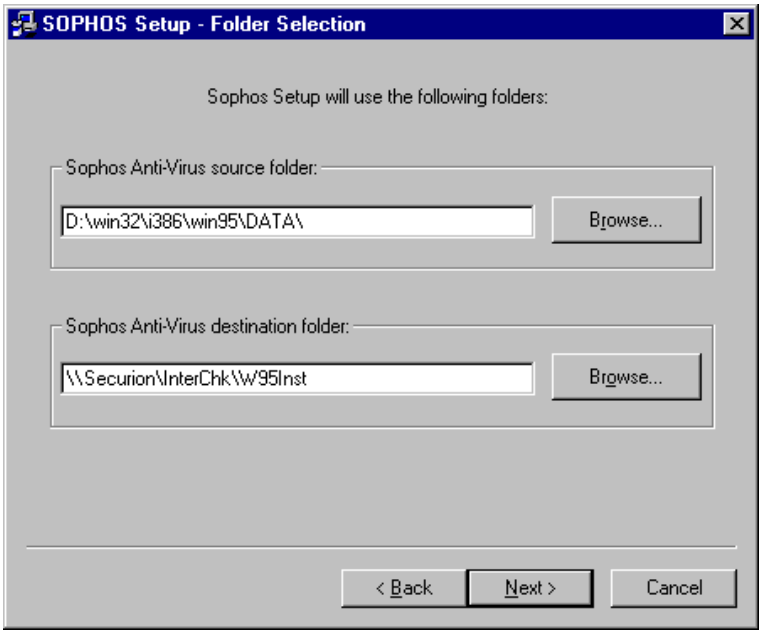
6. In the **SOPHOS Setup - Folder Selection** dialog box, you tell Sophos Anti-Virus to use the `InterChk` directory you created on the Unix server. Click the lower **Browse** button.

   In the **Browse for Folder** dialog box, browse to the shared `InterChk` directory on the Unix server (called `Securion` in the example below). Highlight the directory and click **OK**.

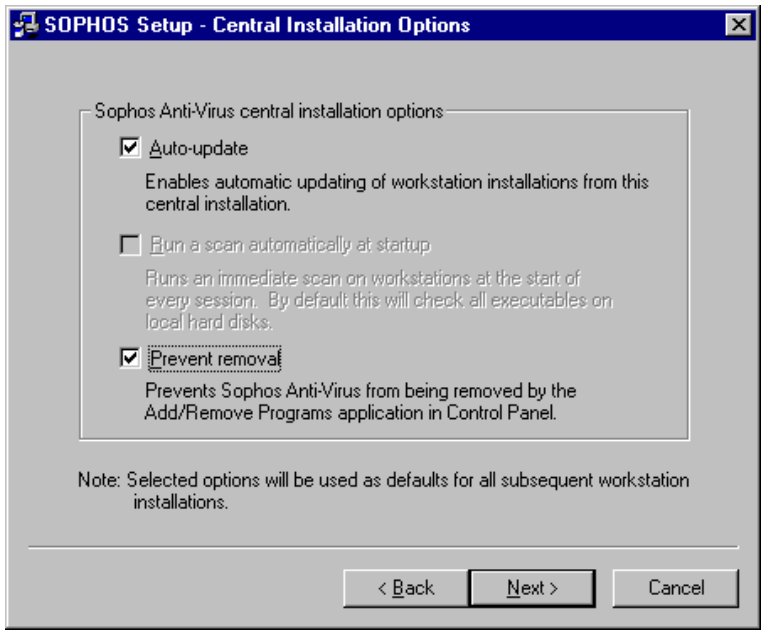
   At the end of the path to the `InterChk` directory, type

   `\W95Inst`

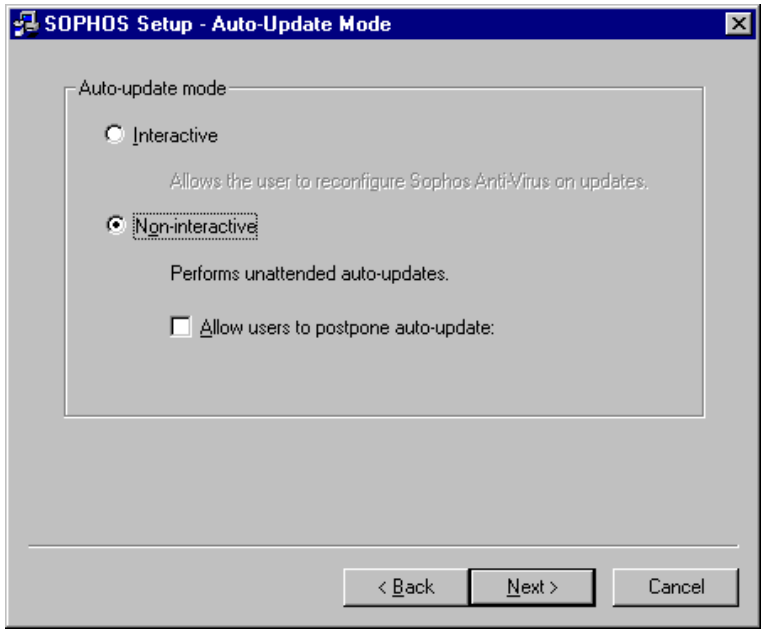
   Click **Next**.



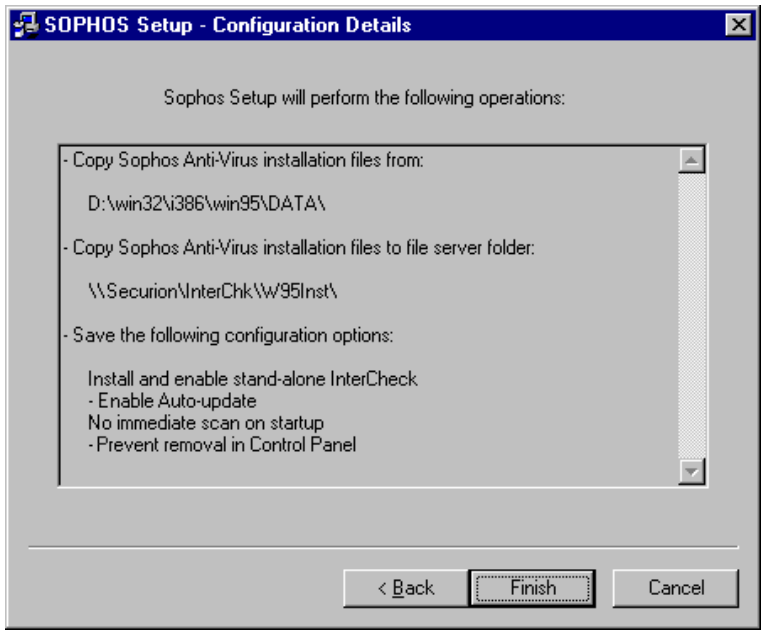
7. In the **SOPHOS Setup - Central Installation Options** dialog box, select **Auto-update** and **Prevent removal**. Click **Next**.


SOPHOS Setup - Central Installation Options
Sophos Anti-Virus central installation options
Auto-update
Enables automatic updating of workstation installations from this central installation.
Run a scan automatically at startup
Runs an immediate scan on workstations at the start of every session. By default this will check all executables on local hard disks.
Prevent removal
Prevents Sophos Anti-Virus from being removed by the Add/Remove Programs application in Control Panel.
Note: Selected options will be used as defaults for all subsequent workstation installations.
< Back
Next >
Cancel

8. In the **SOPHOS Setup - Auto-Update Mode** dialog box, click **Non-interactive**. Click **Next**.



9. In the **SOPHOS Setup - Configuration Details** dialog box, click **Finish** to complete the installation.


SOPHOS Setup - Configuration Details
Sophos Setup will perform the following operations:
- Copy Sophos Anti-Virus installation files from:
D:\win32\i386\win95\DATA\
- Copy Sophos Anti-Virus installation files to file server folder:
\\Securion\InterChk\W95Inst\
- Save the following configuration options:
Install and enable stand-alone InterCheck
- Enable Auto-update
No immediate scan on startup
- Prevent removal in Control Panel
< Back
Finish
Cancel

10. In the **SOPHOS Setup Complete** message box, click **OK**.

SOPHOS Setup Complete
sophos anti-virus
Sophos Anti-Virus central installation complete.
Setup location:
\\Securion\InterChk\W95Inst\Setup.exe -inl-a
You can now run Sophos Setup from the above location to install Sophos Anti-Virus on your workstations.
OK

You have created the Windows 95/98/Me CID. Now download the latest virus identity files (IDEs) from the Sophos website (section 6).

6 Downloading the latest virus identity files (IDEs)

This section describes how to download IDEs from the Sophos website.

A **virus identity file (IDE)** enables Sophos Anti-Virus to detect a specific virus. You need IDEs to protect your network against viruses discovered since your version of Sophos Anti-Virus was compiled.

Download the latest IDEs as follows:

1. At the same workstation you used in sections 4 or 5, go to the IDE download page of the Sophos website (www.sophos.com/downloads/ide).
2. Download the compressed IDEs file for your version of Sophos Anti-Virus.
3. If you want to install Sophos Anti-Virus on Windows NT/2000/XP workstations on the network, extract the IDEs to

   `\\[servername]\InterChk\NTInst\i386`

   where `[servername]` is the name of the Unix server (`Securion` in the examples in this installation guide).
4. If you want to install Sophos Anti-Virus on Windows 95/98/Me workstations on the network, extract the IDEs to

   `\\[servername]\InterChk\W95Inst`

   where `[servername]` is the name of the Unix server (`Securion` in the examples in this installation guide).

If you prefer, scroll down the page and download the IDEs one by one, to the locations above.

Help with downloading IDEs is available on the IDE FAQ page of the Sophos website (www.sophos.com/support/faqs/ide.html). If you use Internet Explorer 5.0, read the note on why IDEs may acquire an extra file extension when you download them.

If you need further help with downloading IDEs, please contact Sophos technical support.

You have downloaded the latest IDEs. Now install Sophos Anti-Virus on Windows NT/2000/XP workstations (section 7) or Windows 95/98/Me workstations (section 9).

Installation on Windows NT/2000/XP workstations

7 Creating the auto-update account

The **auto-update account** is the account workstations use to log on to the server and collect Sophos Anti-Virus updates from the central installation directory.

Create the auto-update account at the same workstation you used in section 4. If the workstation is running Windows 2000, follow the instructions in the *Windows NT/2000/XP auto-update account supplement* instead, then continue to section 8.

1. At the taskbar, click **Start|Programs|Administrative Tools (Common)|User Manager**.
2. In the **User Manager** window, on the **User** menu, click **New User**.
3. In the **New User** dialog box, in the **Username** text box, type

   SWEEPUPD

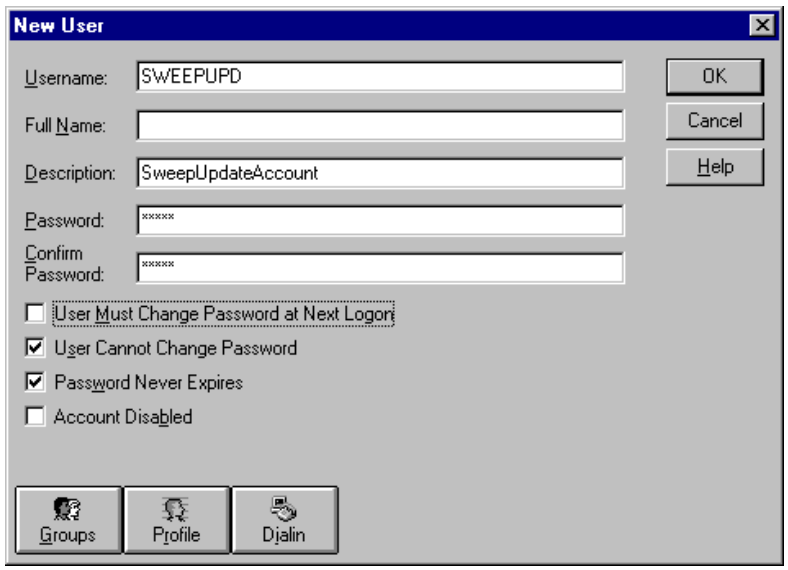
   in capital letters. In the **Description** text box, type

   SweepUpdateAccount

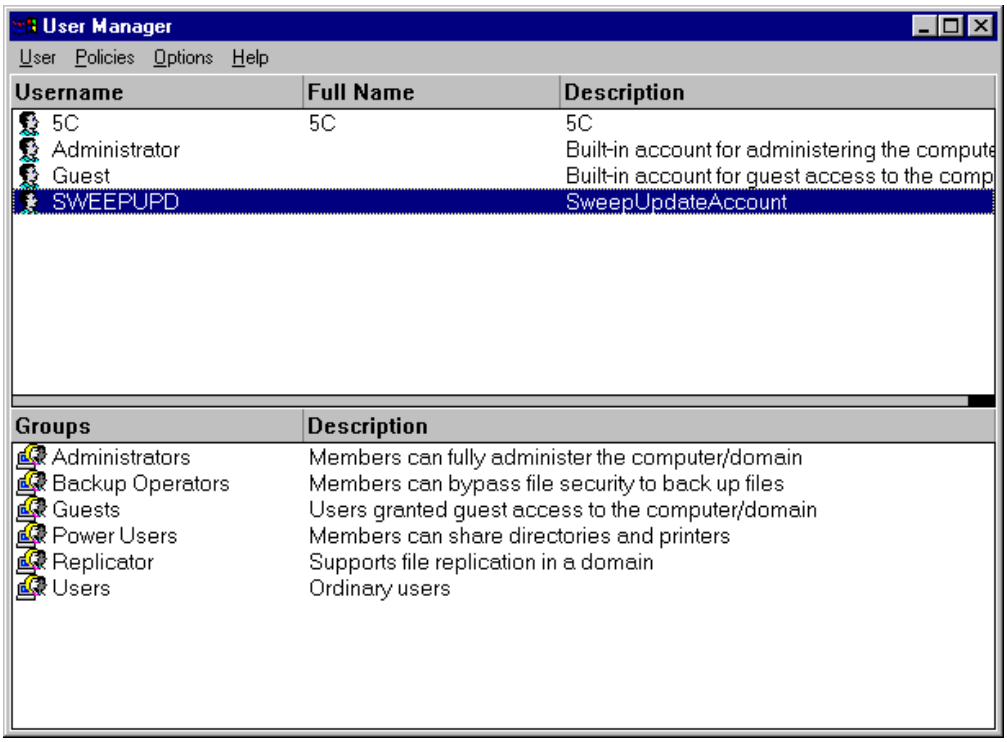
   In the **Password** text box, type a password. In the **Confirm Password** text box, confirm the password. It is case-sensitive.

   Deselect **User Must Change Password at Next Logon**, and select **User Cannot Change Password** and **Password Never Expires**. Click **OK**.

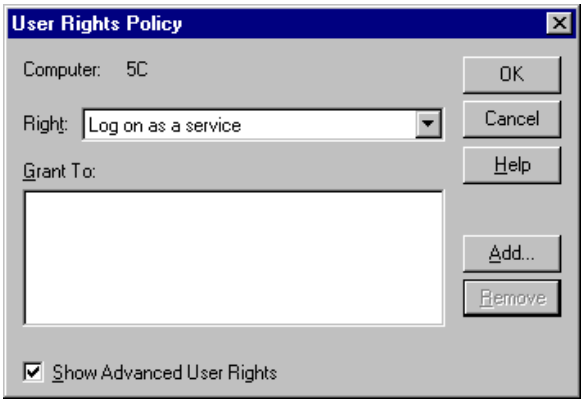
   If this installation guide will be stored in a secure place, make a note of the password in appendix 4.



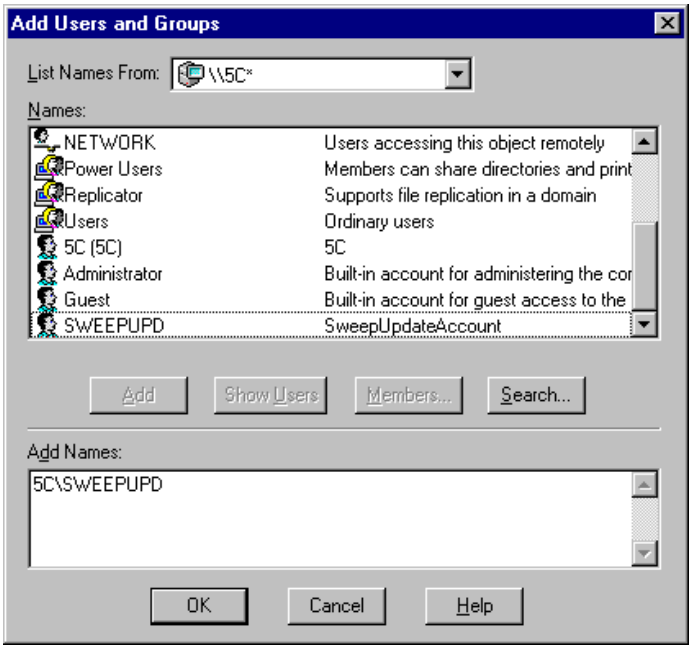
4. In the **User Manager** window, click the SWEEPUPD account. On the **Policies** menu, click **User Rights**.



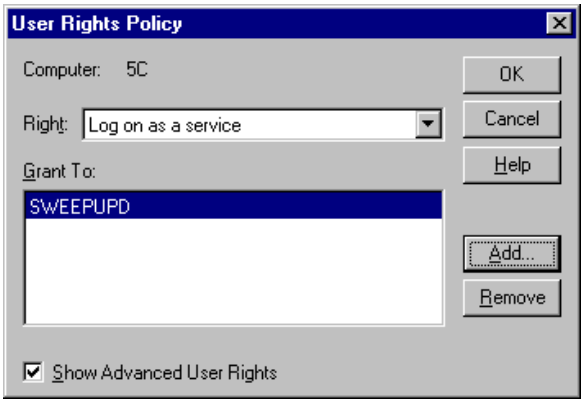
5. In the **User Rights Policy** dialog box, select **Show Advanced User Rights**. Click the drop-down arrow on the **Right** box and select **Log on as a service**. Then click **Add**.



6. In the **Add Users and Groups** dialog box, click **Show Users**. Scroll down the **Names** list to SWEEPUPD and click it. Click **Add**. When SWEEPUPD is displayed in the **Add Names** list, click **OK.**



7. In the **User Rights Policy** dialog box, click **OK**.



8. Close the **User Manager** window.

   You have created the auto-update account. Now install Sophos Anti-Virus from the central installation directory onto the Windows NT/2000/XP workstations (section 8).

8 Installing Sophos Anti-Virus on the Windows NT/2000/XP workstations

This section describes how to install Sophos Anti-Virus on the Windows NT/2000/XP workstations on the network. There are two alternative methods:

- Install Sophos Anti-Virus on each workstation one at a time, by repeating the procedure described in section 8.1.

or

- Carry out the procedure described in sections 8.1 and 8.2 on one workstation, then copy the installation to the other Windows NT/2000/XP workstations using a network administration tool called SAVAdmin, as described in section 8.3.

The second method is more complicated, but saves time on larger networks.

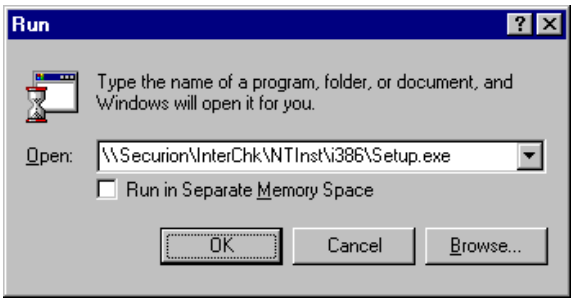
8.1 Install Sophos Anti-Virus on one workstation

To install Sophos Anti-Virus on one workstation, do the following:

1. At the workstation that you used in section 4, if you have not already done so, log on with Administrator rights.
2. At the taskbar, click **Start**|**Run**.
3. In the **Run** dialog box, click **Browse**. Locate and double-click Setup.exe in

   `\\[servername]\InterChk\NTInst\i386`

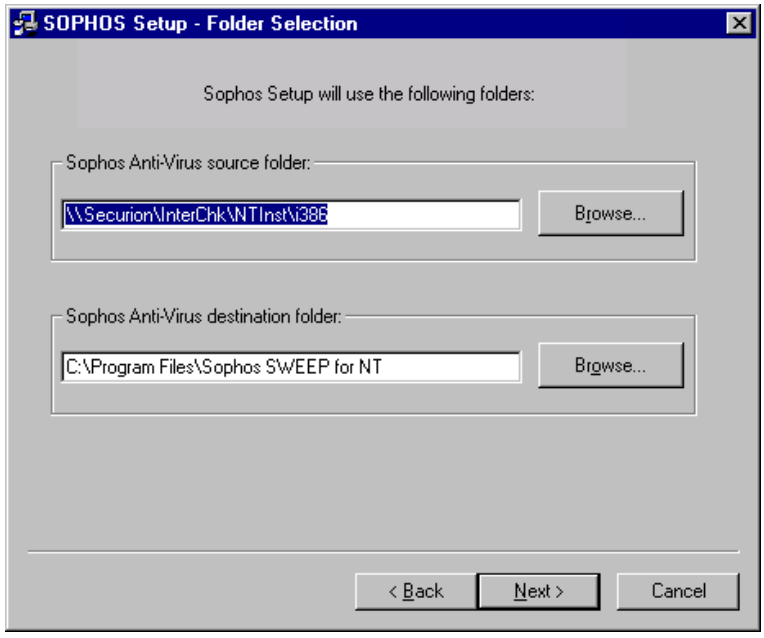
   where `[servername]` is the name of the server on which you created the central installation directory (CID).
4. In the **Run** dialog box, click **OK**.



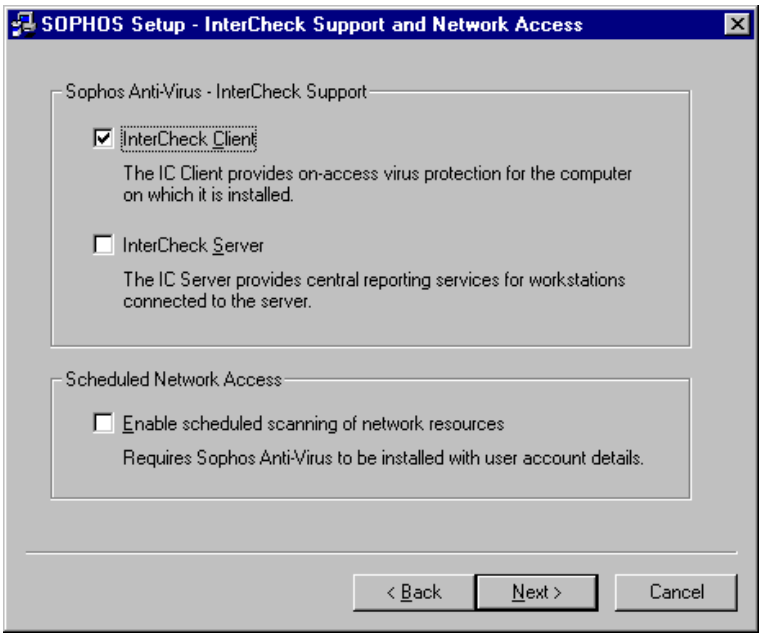
5. In the **SOPHOS Setup** dialog box, click **Next** to continue the installation.

SOPHOS Setup
sophos anti-virus
SETUP
Sophos Anti-Virus
Sophos Setup will install Sophos Anti-Virus on your system.
To continue with the installation click on Next, otherwise click on Cancel.
< Back
Next >
Cancel

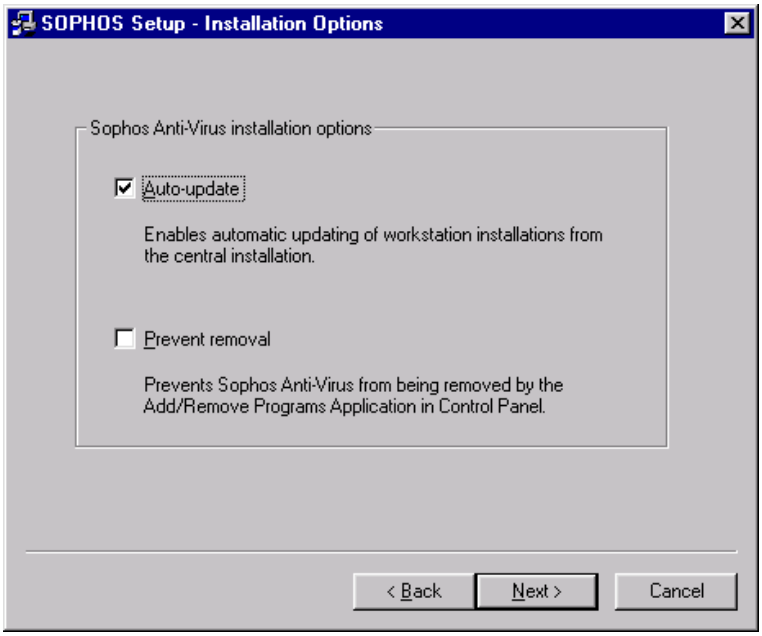
6. In the **SOPHOS Setup - Folder Selection** dialog box, click **Next** to accept the default folders.



7. In the **SOPHOS Setup - InterCheck Support and Network Access** dialog box, select **InterCheck Client**. Click **Next**.


SOPHOS Setup - InterCheck Support and Network Access
Sophos Anti-Virus - InterCheck Support
InterCheck Client
The IC Client provides on-access virus protection for the computer on which it is installed.
InterCheck Server
The IC Server provides central reporting services for workstations connected to the server.
Scheduled Network Access
Enable scheduled scanning of network resources
Requires Sophos Anti-Virus to be installed with user account details.
< Back
Next >
Cancel

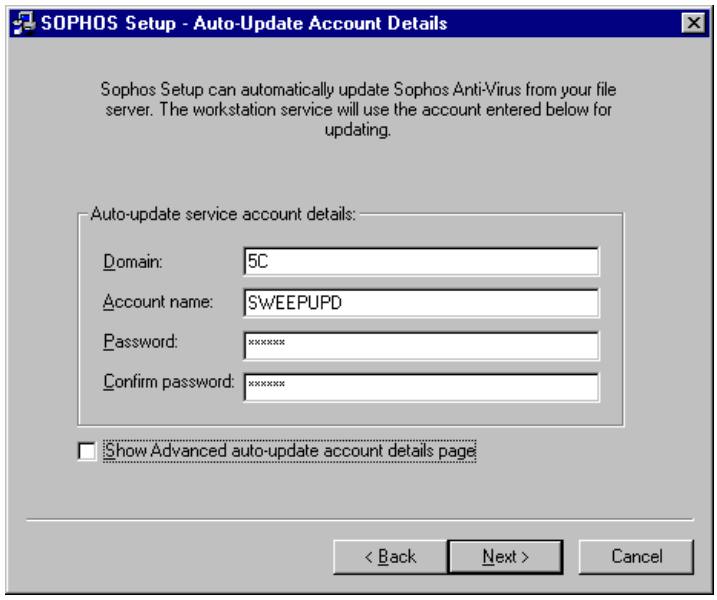
8. In the **SOPHOS Setup - Installation Options** dialog box, ensure **Auto-update** is selected. Click **Next**.


SOPHOS Setup - Installation Options
Sophos Anti-Virus installation options
Auto-update
Enables automatic updating of workstation installations from the central installation.
Prevent removal
Prevents Sophos Anti-Virus from being removed by the Add/Remove Programs Application in Control Panel.
< Back
Next >
Cancel

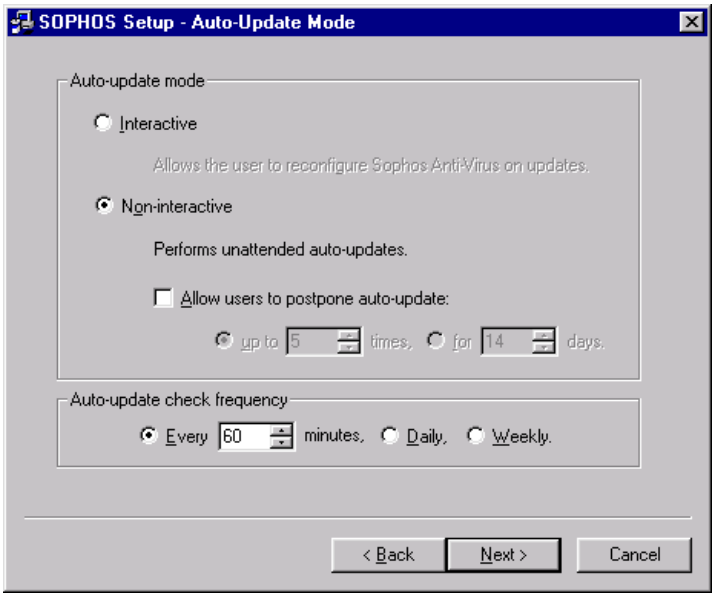
9. In the **SOPHOS Setup - Auto-Update Account Details** dialog box, in the **Domain** text box, type the computer name. In the **Account name** text box, using capital letters, type

   SWEEPUPD

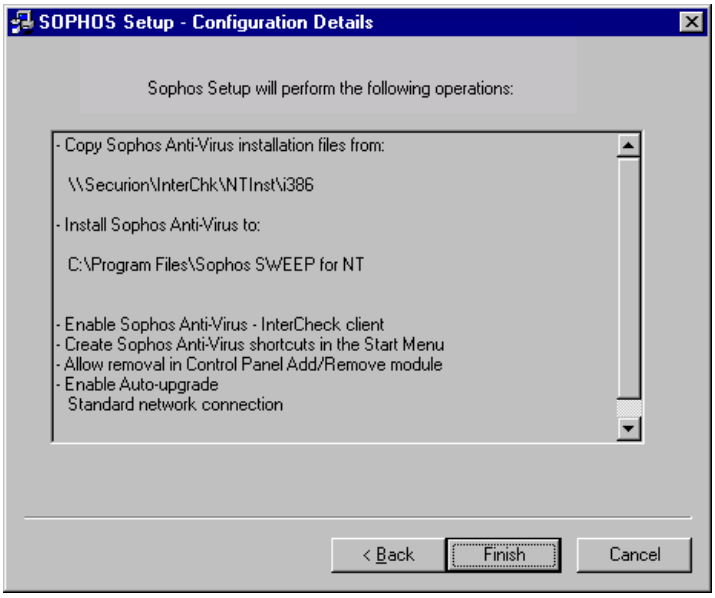
   In the **Password** text box, type the case-sensitive password you used in section 7 (see appendix 4). In the **Confirm password** text box, confirm the password. Click **Next**.


SOPHOS Setup - Auto-Update Account Details
Sophos Setup can automatically update Sophos Anti-Virus from your file server. The workstation service will use the account entered below for updating.
Auto-update service account details:
Domain:
5C
Account name:
SWEEPUPD
Password:
Confirm password:
Show Advanced auto-update account details page
< Back
Next >
Cancel

10. In the **SOPHOS Setup - Auto-Update Mode** dialog box, click **Non-interactive**. Deselect **Allow users to postpone auto-update**, and ensure the **Auto-update check frequency** is set to 60 minutes. Click **Next**.



11. In the **SOPHOS Setup - Configuration Details** dialog box, click **Finish** to complete the installation. If you see a message about error number 1069, click **Back** and check you have entered the correct details in the **SOPHOS Setup - Auto-Update Account Details** dialog box.


SOPHOS Setup - Configuration Details
Sophos Setup will perform the following operations:
- Copy Sophos Anti-Virus installation files from:
\\Securion\InterChk\NTInst\i386
- Install Sophos Anti-Virus to:
C:\Program Files\Sophos SWEEP for NT
- Enable Sophos Anti-Virus - InterCheck client
- Create Sophos Anti-Virus shortcuts in the Start Menu
- Allow removal in Control Panel Add/Remove module
- Enable Auto-upgrade
Standard network connection
< Back
Finish
Cancel

12. In the **SOPHOS Setup** message box, if you wish to view the **Sophos Anti-Virus** window, click **Run Sophos Anti-Virus**. Otherwise, click **Exit**.

SOPHOS Setup
sophos anti-virus
Sophos Anti-Virus installation complete.
To run Sophos Anti-Virus now click on Run Sophos Anti-Virus, otherwise click Exit to finish.
To run Sophos Anti-Virus later, select Sophos Anti-Virus from the Start Menu.
Run Sophos Anti-Virus
Exit

Remember to update Sophos Anti-Virus every month. In addition, you must update Sophos Anti-Virus whenever there is a significant new virus threat. Updating is described in the *Sophos Anti-Virus Unix server update guide*.

You have installed Sophos Anti-Virus on this workstation.

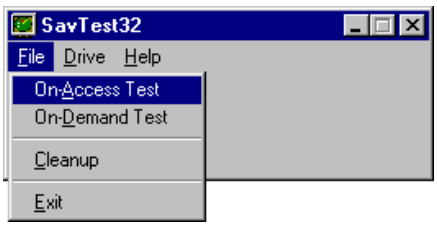
- If you want to install Sophos Anti-Virus on other Windows NT/2000/XP workstations one at a time, repeat this section (section 8.1) at each workstation.
- If you want to test Sophos Anti-Virus, go to section 8.2.
- If you want to copy this installation of Sophos Anti-Virus to other Windows NT/2000/XP workstations using SAVAdmin, test the installation first as explained in section 8.2.
- If you want to install Sophos Anti-Virus on any Windows 95/98/Me workstations on the network, go to section 9.

8.2 Test Sophos Anti-Virus

If you would like to test Sophos Anti-Virus on a Windows XP workstation, you should first read the SavTest32 section of the utilities readme, located on the Sophos CD at

`Tools\Utils\Readutil.txt`

1. At the Windows NT/2000/XP workstation on which you installed Sophos Anti-Virus in section 8.1, insert the Sophos CD. The CD should auto-run. If auto-run is disabled, run `D:\Launchcd` (where `D:` is the CD drive).
2. In the **Sophos CD** window, click **Sophos Anti-Virus**. At the next screen, click **Utilities**. At the next screen, click **SAVTEST**.
3. Click **Launch SAVTEST for Win32 platforms**.
4. In the **SavTest32** window, on the **File** menu, click **On-Access Test**.



SavTest32 creates a file that simulates a virus. Sophos Anti-Virus reports a virus find on the workstation, and confirms that on-access detection/prevention is working.

On-access detection/prevention is also known as InterCheck.

If SavTest32 reports that on-access detection/prevention is ***not*** functioning correctly, contact Sophos technical support.

When you exit from SavTest32, the test file is deleted.

You have tested Sophos Anti-Virus.

- If you want to install Sophos Anti-Virus on other Windows NT/2000/XP workstations one at a time, repeat section 8.1 at each workstation.
- If you want to copy this installation of Sophos Anti-Virus to other Windows NT/2000/XP workstations using SAVAdmin, go to section 8.3.
- If you want to install Sophos Anti-Virus on any Windows 95/98/Me workstations on the network, go to section 9.

8.3 Install Sophos Anti-Virus on the remaining workstations

This section describes how to copy the installation you made in section 8.1 onto the other Windows NT/2000/XP workstations on the network.

This procedure involves the following three steps.

- Install SAVAdmin (section 8.3.1).
- If necessary, enable SAVAdmin to access any Windows XP workstations (section 8.3.2).
- Copy Sophos Anti-Virus to the remaining workstations (section 8.3.3).

8.3.1 Install SAVAdmin

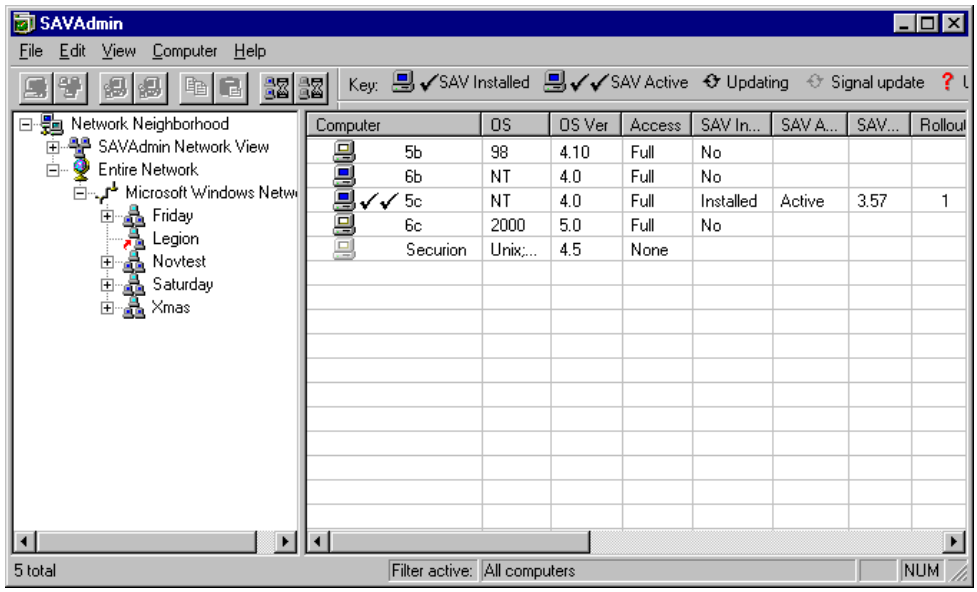
If you have already downloaded the SAVAdmin files from the Sophos website, go to step 5.

1. At the same workstation you used in section 4, insert the Sophos CD. The CD should auto-run. If auto-run is disabled, run `D:\Launchcd` (where `D:` is the CD drive).
2. In the **Sophos CD** window, click **Sophos Anti-Virus**.
3. At the next screen, click **SAVAdmin**.
4. At the next screen, start the SAVAdmin setup program.
5. In the **WinZip Self-Extractor** message box, click **OK**.

6. In the **SAVAdmin for Windows NT/2000 Self-Extractor** dialog box, click **Unzip**.

7. In the **WinZip Self-Extractor** message box, click **OK** to display the **SAVAdmin** window.

8. In the **SAVAdmin** window, in the left-hand pane, locate your network and click it. The computers in the network are shown in the right-hand pane. The workstation on which you installed Sophos Anti-Virus shows **Installed** in the **SAV Installed** column.



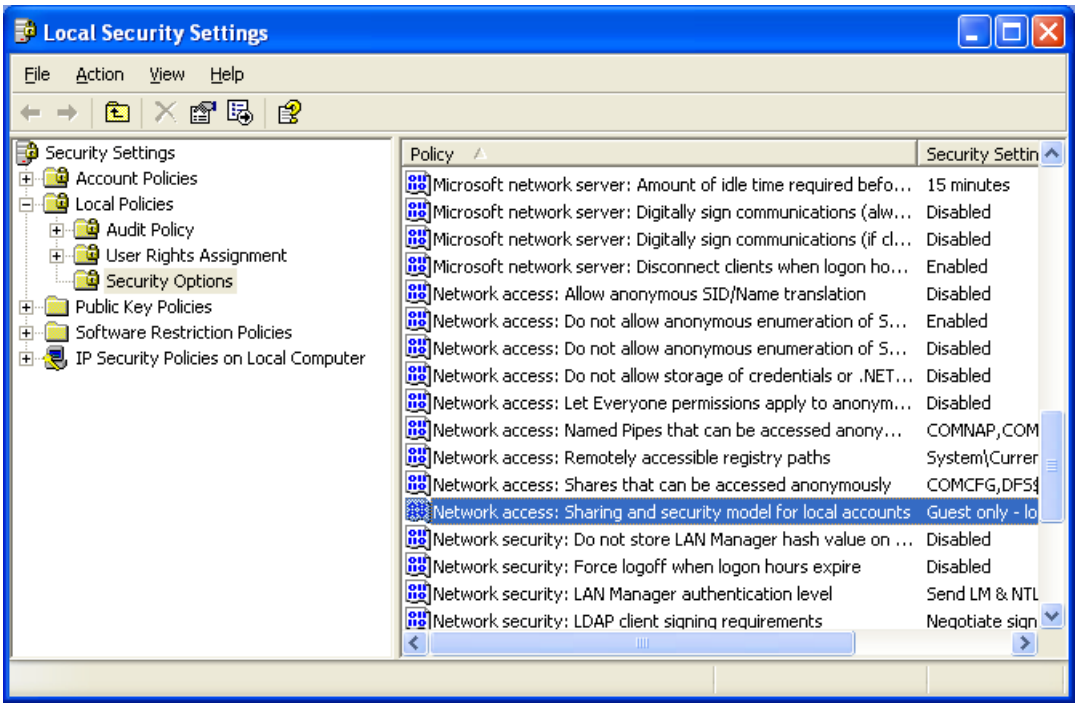
If you have any Windows XP workstations, SAVAdmin may not have access to them ('None' is displayed in the **Access** column). Continue to section 8.3.2 to enable SAVAdmin to access those workstations.

If there are no Windows XP workstations, or if SAVAdmin has full access to your Windows XP workstations ('Full' is displayed in the **Access** column), go straight to section 8.3.3.

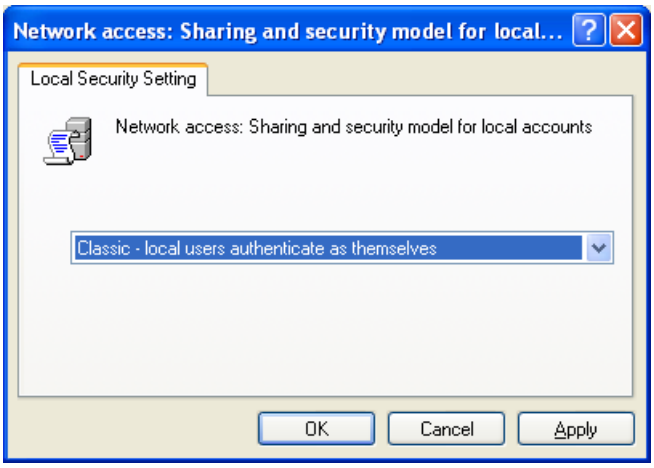
8.3.2 Enable SAVAdmin to access Windows XP workstations

Complete this procedure on each Windows XP workstation that SAVAdmin cannot access.

1. At the Windows XP workstation, log on with Administrator rights.
2. At the taskbar, click **Start|Control Panel**.
3. In the **Control Panel** window, on the left-hand side, click **Switch to Classic View**. The options in the window are now displayed as icons. Double-click the **Administrative Tools** icon.
4. In the **Administrative Tools** window, double-click **Local Security Policy**.
5. In the **Local Security Settings** window, in the left-hand pane, double-click **Local Policies** then click **Security Options**. In the right-hand pane, double-click **Network access: Sharing and security model for local accounts**.


Local Security Settings
File Action View Help
Security Settings
Account Policies
Local Policies
Audit Policy
User Rights Assignment
Security Options
Public Key Policies
Software Restriction Policies
IP Security Policies on Local Computer
Policy
Security Settin
Microsoft network server: Amount of idle time required befo... 15 minutes
Microsoft network server: Digitally sign communications (alw... Disabled
Microsoft network server: Digitally sign communications (if cl... Disabled
Microsoft network server: Disconnect clients when logon ho... Enabled
Network access: Allow anonymous SID/Name translation Disabled
Network access: Do not allow anonymous enumeration of S... Enabled
Network access: Do not allow anonymous enumeration of S... Disabled
Network access: Do not allow storage of credentials or .NET... Disabled
Network access: Let Everyone permissions apply to anonym... Disabled
Network access: Named Pipes that can be accessed anony... COMNAP,COM
Network access: Remotely accessible registry paths System\Currer
Network access: Shares that can be accessed anonymously COMCFG,DFS$
Network access: Sharing and security model for local accounts Guest only - lo
Network security: Do not store LAN Manager hash value on ... Disabled
Network security: Force logoff when logon hours expire Disabled
Network security: LAN Manager authentication level Send LM & NTL
Network security: LDAP client signing requirements Negotiate sign

6. In the dialog box, change the drop-down list option to **Classic – local users authenticate as themselves**. Click **OK**.


Network access: Sharing and security model for local...
Local Security Setting
Network access: Sharing and security model for local accounts
Classic - local users authenticate as themselves
OK
Cancel
Apply

7. Close all windows.

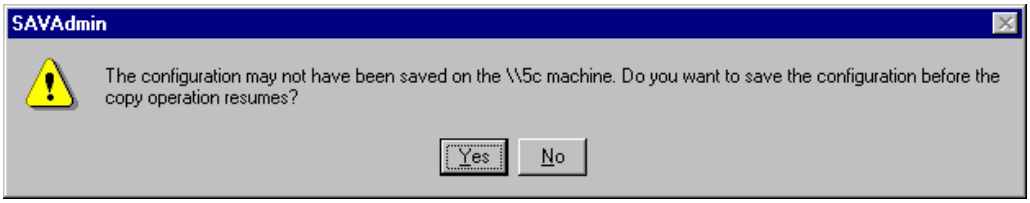
   Repeat this procedure on each Windows XP workstation that SAVAdmin cannot access.

   You should now be able to see that SAVAdmin has full access to the Windows XP workstations.

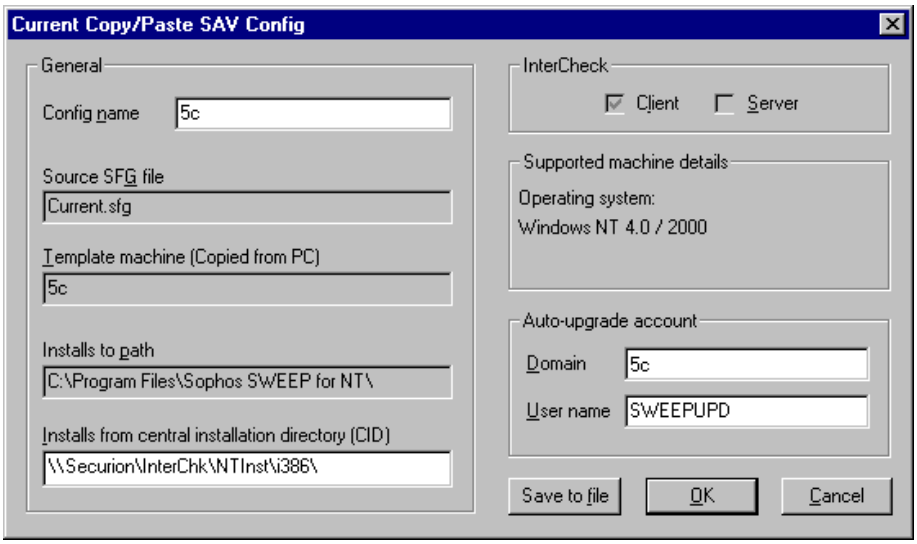
   Now copy the installation of Sophos Anti-Virus from the first workstation to the remaining workstations (section 8.3.3).

8.3.3 Copy Sophos Anti-Virus to the remaining workstations

1. In SAVAdmin, right-click the name of the workstation on which you installed Sophos Anti-Virus to display a menu. Select **Copy SAV Config**.
2. In the **SAVAdmin** message box, click **Yes** to save the configuration.


SAVAdmin
The configuration may not have been saved on the \\5c machine. Do you want to save the configuration before the copy operation resumes?
Yes
No

3. In the **Current Copy/Paste SAV Config** dialog box, in the bottom right-hand corner, ensure the **User name** text box contains SWEEPUPD in capital letters. If the workstations are connected to the server as a workgroup, the **Domain** text box should contain the name of the workstation. Click **OK**.



4. In the **SAVAdmin** window, hold down the 'Ctrl' key and click the names of all the Windows NT/2000/XP workstations on which you would like to install Sophos Anti-Virus.

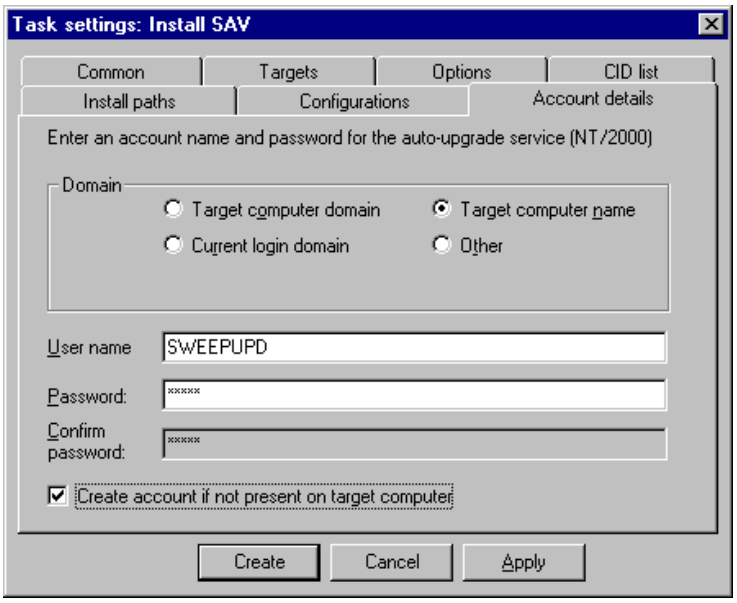
Ensure you click only ***Windows NT/2000/XP*** workstations.

5. Right-click one of the selected workstations to display a menu. Select **Paste SAV Config**.

6. In the **Task Settings: Install SAV** dialog box, click the **Account details** tab. Click **Target computer name**. In the **User name** text box, using capital letters, type

   SWEEPUPD

   In the **Password** text box, type the case-sensitive password you used in section 7 (see appendix 4). In the **Confirm password** text box, confirm the password. Ensure **Create account if not present on target computer** is selected.



7. Click the **CID list** tab and ensure the correct path to the CID is shown (see appendix 4 if you are not sure of the path). Click **Apply**, then click **Create**.

8. In the **SAVAdmin** message box, click **Yes** to start the installation.

   In the **SAVAdmin** window you can see the workstations updating.

   Users see the files being copied onto their workstations.

   When installation is complete, SAVAdmin shows that the workstations have Sophos Anti-Virus installed. They are protected by InterCheck, which means all files are checked for viruses as they are accessed by the workstations.

If the installation is unsuccessful and you tried to install Sophos Anti-Virus on more than one version of Windows (e.g. NT and 2000), try repeating this procedure for only the workstations that use the same version of Windows as the workstation you used in section 8.1. Then repeat sections 8.1–8.3 for each of the other Windows versions as necessary.

You can use SAVAdmin to monitor workstation installations of Sophos Anti-Virus at any time. Savadmin.exe is located at

```
C:\Program Files\Sophos\SAVAdmin\Ver2.20
```

For more information about SAVAdmin, see the *SAVAdmin user manual*.

Remember to update Sophos Anti-Virus every month. In addition, you must update Sophos Anti-Virus whenever there is a significant new virus threat. Updating is described in the *Sophos Anti-Virus Unix server update guide*.

You have installed Sophos Anti-Virus on the Windows NT/2000/XP workstations. Now install Sophos Anti-Virus on any Windows 95/98/Me workstations on the network.

Installation on Windows 95/98/Me workstations

9 Installing Sophos Anti-Virus on the Windows 95/98/Me workstations

9.1 Install Sophos Anti-Virus on the workstations

You can use one of two different methods to install Sophos Anti-Virus on the Windows 95/98/Me workstations:

- Use the login script to install Sophos Anti-Virus on all Windows 95/98/Me workstations simultaneously. For details, contact Sophos technical support. Test the installations as described in section 9.2.

or

- Install Sophos Anti-Virus on each workstation one at a time, by repeating the procedure described below.

To install Sophos Anti-Virus on an individual workstation do the following:

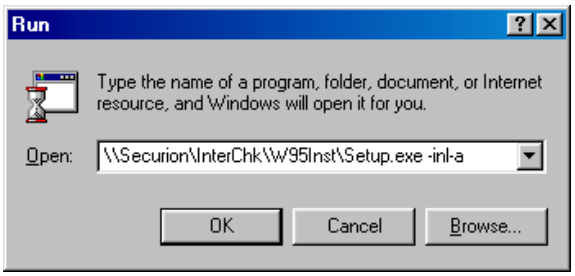
1. At the workstation, at the taskbar, click **Start**|**Run**.
2. In the **Run** dialog box, click **Browse**. Locate and double-click Setup.exe in

   `\\[servername]\InterChk\W95Inst`

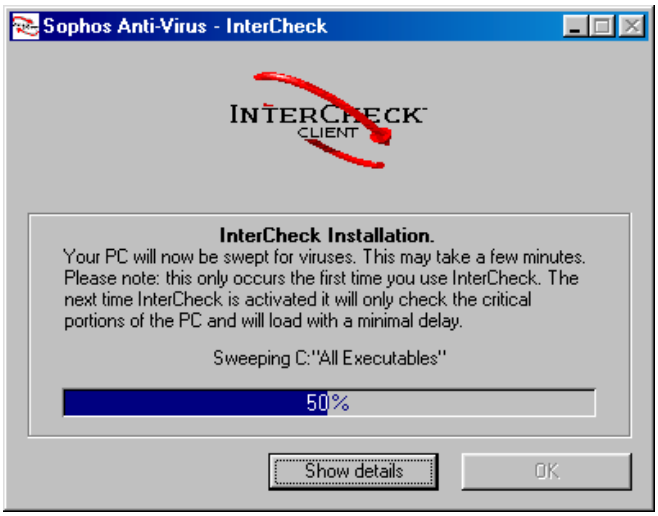
   where `[servername]` is the name of the Unix server on which you created the central installation directory (CID).
3. In the **Run** dialog box, type

   `-inl -a`

   at the end of the path. Click **OK**.



A message is displayed stating that the workstation will reboot. When Windows restarts, the workstation is checked for viruses.


Sophos Anti-Virus - InterCheck
INTERCHECK
CLIENT
InterCheck Installation.
Your PC will now be swept for viruses. This may take a few minutes.
Please note: this only occurs the first time you use InterCheck. The
next time InterCheck is activated it will only check the critical
portions of the PC and will load with a minimal delay.
Sweeping C:"All Executables"
50%
Show details
OK

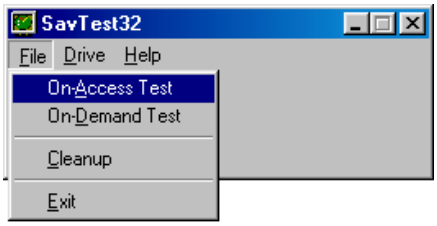
Once this check has finished, installation is complete.

Remember to update Sophos Anti-Virus every month. In addition, you must update Sophos Anti-Virus whenever there is a significant new virus threat. Updating is described in the *Sophos Anti-Virus Unix server update guide*.

- If you want to install Sophos Anti-Virus on other Windows 95/98/Me workstations one at a time, repeat this section (section 9.1) at each workstation.
- If you want to test Sophos Anti-Virus, go to section 9.2.
- If you have installed the SAVAdmin administration tool and want to use it to monitor the Windows 95/98/Me workstations, go to section 9.3.

9.2 Test Sophos Anti-Virus

1. At one of the Windows 95/98/Me workstations on which you installed Sophos Anti-Virus in section 9.1, insert the Sophos CD. The CD should auto-run. If auto-run is disabled, run `D:\Launchcd` (where `D:` is the CD drive).
2. In the **Sophos CD** window, click **Sophos Anti-Virus**. At the next screen, click **Utilities**. At the next screen, click **SAVTEST**.
3. Click **Launch SAVTEST for Win32 platforms**.
4. In the **SavTest32** window, on the **File** menu, click **On-Access Test**.



SavTest32 creates a file that simulates a virus. Sophos Anti-Virus reports a virus find on the workstation, and confirms that on-access detection/prevention is working.

On-access detection/prevention is also known as InterCheck.

If SavTest32 reports that on-access detection/prevention is ***not*** functioning correctly, contact Sophos technical support.

When you exit from SavTest32, the test file is deleted.

You have tested Sophos Anti-Virus.

- If you want to install Sophos Anti-Virus on other Windows 95/98/Me workstations one at a time, repeat section 9.1 at each workstation.
- If you have installed the SAVAdmin administration tool and want to use it to monitor the Windows 95/98/Me workstations, go to section 9.3.

9.3 To enable SAVAdmin to monitor Windows 95/98/Me workstations

If you have installed SAVAdmin on a Windows NT/2000 workstation, and you want to monitor Windows 95/98/Me workstation installations of Sophos Anti-Virus, you can enable SAVAdmin to do this. Copy the SAVAgent utility to the StartUp folder of each Windows 95/98/Me workstation, where it is run whenever Windows starts. Do as follows:

1. At the workstation on which you installed SAVAdmin, insert a floppy disk.
2. Copy

   ```
   C:\Program Files\Sophos\SAVAdmin\Ver 2.20\Savagent
   ```

   to the floppy disk.
3. At any of the Windows 95/98/Me workstations that you would like to monitor using SAVAdmin, insert the floppy disk.
4. If the workstation is running Windows 95, copy Savagent to

   ```
   C:\Windows\Start Menu\Programs\StartUp
   ```

   If the workstation is running Windows 98/Me, copy Savagent to

   ```
   C:\Windows\All Users\Start Menu\Programs\StartUp
   ```

   The next time Windows starts, the SAVAgent utility is run on the workstation, enabling SAVAdmin to monitor the workstation.

   Repeat steps 3 and 4 for any other Windows 95/98/Me workstations you would like to monitor using SAVAdmin.

   For more information about SAVAdmin, see the *SAVAdmin installation guide* or the *SAVAdmin user manual*.

Appendices

Installing on multiple Unix computers

Installing central reporting

Options for non-default installation

Notes about the installation

Appendix 1 Installing on multiple Unix computers

If you have multiple, networked Unix computers, you may want to install and update Sophos Anti-Virus from a central directory, rather than carrying out installation at each computer separately.

This procedure assumes that there is a trust relationship between the computers.

1. On one Unix computer, set up a shared area that is available to all the other computers.
2. Untar the Sophos Anti-Virus for Unix distribution archive or archives to this shared area.

   If you have computers on your network that use more than one Unix operating system (e.g. Linux and FreeBSD), untar the distribution archive for each system into a separate directory.
3. Use ssh to run the install.sh script on every connected Unix computer, from the shared area. For example, enter

   ```
   ssh -l [username] [hostname] / .install.sh
   ```

   where [username] is your user ID and [hostname] is the computer on which you want to install Sophos Anti-Virus.

   In each case, ensure that you run install.sh from the correct set of distribution files for that computer's operating system.

On older Unix computers, ssh may not be available. You can use rsh instead, though it is less secure.

Step 3 can be put into a script which is run from one of your Unix computers.

Appendix 2 Installing central reporting

InterCheck Server is a daemon that runs on the Unix server, and processes virus alerts sent from Windows, Macintosh and OS/2 workstations. To use it you need to set up a user and group for the daemon and set permissions on a common directory.

To install Sophos Anti-Virus with InterCheck Server, there are six steps:

- Prepare for installation (appendix 2.1).
- Extract the installation files (section 1.1).
- Install Sophos Anti-Virus (section 1.2).
- Check the system settings (section 1.3).
- Add the latest virus identity files (section 1.4).
- Activate central reporting (appendix 2.2).

Appendix 2.1 Prepare for installation

Before the first installation, you must

- create a user group called 'sweep'
- create a user called 'sweep'. The primary group of this user should be 'sweep', and the user should not be allowed to log in at a terminal. You may want to set the shell to `/bin/false`. Check your Unix documentation for details of how to do this.

Now extract the installation files (section 1.1).

Appendix 2.2 Activate central reporting

To use InterCheck Server, do as follows:

1. Export the `/var/spool/intercheck` directory so that it is visible to the non-Unix workstations.
2. Start InterCheck Server. Enter

   ```
   icheckd
   ```

   For information on controlling and configuring central reporting, refer to the *Sophos Anti-Virus Unix user manual*.

Appendix 3 Options for non-default installation

You can specify the Sophos Anti-Virus files that are installed, and the directories where they are installed.

To perform a non-default installation, run the installation script, install.sh, with any of the following options.

-d [prefix]

Installs the programs, library, virus data and manual pages in [prefix]/bin, [prefix]/lib, [prefix]/sav and [prefix]/man.

You do not have to install all these files in the same directory. See the `-b`, `-l`, `-m` and `-s` options.

-b [directory]

Installs the virus scanning programs in [directory].

The other files are installed in the default directory, unless you specify otherwise with the `-l`, `-m` or `-s` options.

-l [directory]

Installs the Sophos Anti-Virus library in [directory].

The other files are installed in the default directory, unless you specify otherwise with the `-b`, `-m` or `-s` options.

-m [directory]

Installs the man pages in [directory].

The other files are installed in the default directory, unless you specify otherwise with the `-b`, `-l` or `-s` options.

-s [directory]

Installs the virus data in [directory].

The other files are installed in the default directory, unless you specify otherwise with the `-b`, `-l` or `-m` options.

-i [directory]

Installs the files for InterCheck Server in [directory]. If no directory is specified, the value in `/etc/icheckd.conf` is used, or the default `/var/spool/intercheck`. The icheckd binary and manual pages are also installed.

-ni

Does not install InterCheck Server at all.

-ssi

Stops and starts InterCheck Server after installation (default setting, implies `-i`).

-nssi

Does not stop and start InterCheck Server after installation.

-h

Prints help.

-v

Verbose operation. Displays the location of each file as it is installed.

Appendix 4 Notes about the installation

This section lists the directories and accounts used in the Sophos Anti-Virus installation. You will need this information when adding workstations to the network and when updating Sophos Anti-Virus. Blanks are left for your own information.

- Name of the Unix server (p6):

  .....

- Name of the Windows workstation used to administer Sophos Anti-Virus for Windows NT/2000/XP on the Unix server (p14):

  .....

- Location of the central installation directory (CID) for the Sophos Anti-Virus for Windows NT/2000/XP installation files as seen from workstations (p16):

  `\\[servername]\InterChk\NTInst\i386`

- Name of the Windows workstation used to administer Sophos Anti-Virus for Windows 95/98/Me on the Unix server (p19):

  .....

- Location of the central installation directory (CID) for the Sophos Anti-Virus for Windows 95/98/Me installation files as seen from workstations (p21):

  `\\[servername]\InterChk\W95Inst`

- Windows NT/2000/XP update account username (p26):

  SWEEPUPD

- Windows NT/2000/XP update account password (p26):

  .....

If you write your password here, store this installation guide securely.